AMENDMENTS TO THE CLAIMS

Claims 1-15 (Previously Canceled).
Claims 16-30 (Canceled).

- 31. (New) A method for affixing mineral fillers on cellulose fibers in an aqueous suspension comprising providing a reaction medium of an aqueous suspension of cellulose fibers, said suspension being derived from a papermaking procedure and containing hydrogen carbonates, carbonates or silicates of alkali and/or earth alkali metals, and adding a hydroxide of a mineral filler to said reaction medium to precipitate carbonates or silicates of the mineral filler onto the fibers, and wherein the aqueous suspension of cellulose fibers includes sodium hydrogen carbonates.
- 32. (New) Method as claimed in claim 31, wherein the aqueous suspension of cellulose fibers includes calciumand/or magnesium-hydrogen carbonates.
- 33. (New) Method as claimed in either claim 31 or 32, wherein a total alkalimetric titer of the aqueous suspension is between 2 and 30°F.
- 34. (New) Method as claimed in claim 31 wherein the aqueous suspension comprises between 20 and 1,000 ppm of sodium ions (Na^+) .

- 35. (New) Method as claimed in claim 32, wherein the aqueous suspension contains between 5 and 200 ppm calcium ions (Ca^{2+}) and/or between 5 and 200 ppm magnesium ions (Mg^{2+}).
- 36. (New) A method for affixing mineral fillers on cellulose fibers in an aqueous suspension comprising providing a reaction medium of an aqueous suspension of cellulose fibers, said suspension being derived from a papermaking procedure and containing hydrogen carbonates, carbonates or silicates of alkali and/or earth alkali metals, and adding a hydroxide of a mineral filler to said reaction medium to precipitate carbonates or silicates of the mineral filler onto the fibers, and wherein the hydroxide of the mineral filler is a calcium hydroxide added in as a concentrated milk or in soluble form.
- 37. (New) Method as claimed in claim 36, wherein said milk comprises calcium hydroxide particles having a mean diameter of less than 6 microns.
- 38. (New) A manufacturing process for sheets of paper comprising
- (a) providing a manufacturing composition based on water and on a bleached or unbleached chemical pulp of paper fibers, on a mechanical pulp, or on a thermomechanical pulp, or on a mixture thereof, said composition comprising at

least alkali metal and/or earth alkali metal ions, and silicate or carbonate and hydrogen carbonate ions,

- (b) adding to said composition a hydroxide of a mineral filler to affix said mineral filler onto the paper fibers, and
- (c) forming a wet sheet of paper on a papermaking machine from the paper fibers which were precipitate-loaded in suspension and drying said sheet,

wherein the manufacturing composition includes sodium and hydrogen carbonate ions in ionic equilibrium.

- 39. (New) A manufacturing process for sheets of paper comprising
- (a) providing a manufacturing composition based on water and on a bleached or unbleached chemical pulp of paper fibers, on a mechanical pulp, or on a thermomechanical pulp, or on a mixture thereof, said composition comprising at least alkali metal and/or earth alkali metal ions, and silicate or carbonate and hydrogen carbonate ions,
- (b) adding to said composition a hydroxide of a mineral filler to affix said mineral filler onto the paper fibers,
- (c) forming a wet sheet of paper on a papermaking machine from the paper fibers which were precipitate-loaded in suspension and drying said sheet,

- (d) recovering drip waters of stage (c) and injecting into the drip waters a gas-containing carbon dioxide to neutralize and stabilize the pH of said drip waters, and
- (e) recycling the drip waters as processed in (d) into the manufacturing composition of (a),

wherein the manufacturing composition includes sodium and hydrogen carbonate ions in ionic equilibrium.